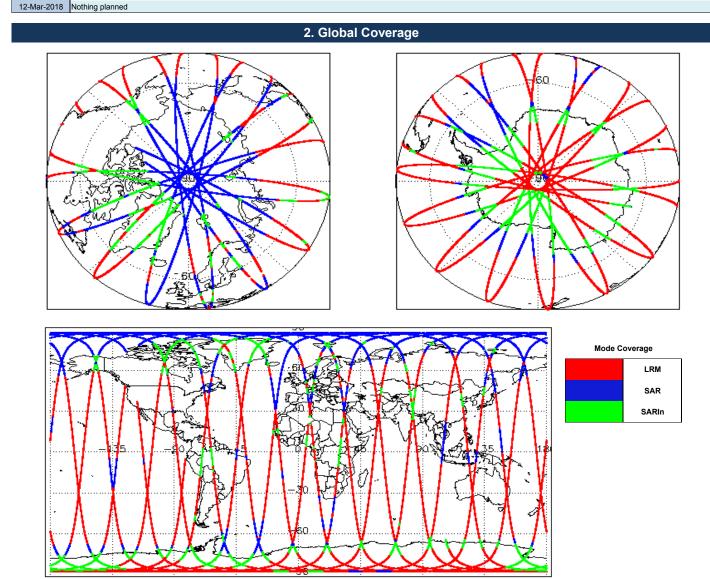


IDEAS+ Daily Report for GOP data:

<u>11/03/2018</u>

ort Production:	10-Apr-2018	Check	L1 & L2	P2P
on Production.		Server check: science-pds.cryosat.esa.int	Nominal	Nominal
cessor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
ocessor used.		Product Software Check	Nominal	Nominal
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data	Product Format Check	Nominal	Nominal
		Product Header Analysis	See Section 5.2	Nominal
		Auxiliary Data File Usage Check	Nominal	See Section 6.3
		Auxiliary Correction Error Check	Nominal	Nominal
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.
		Ocean Retracking Quality Check	See Section 5.8	See Section 6.8

Mission / Instrument News 10-Mar-2018 None None



3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL - A

0

SIRAL instrument(s) in use:

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

Number of products with errors:

4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.
Number of products with errors:
0

4.3 L1B Auxilary Data File Usage Check		
ach product is checked for missing Data Set Descriptors with respect to a pr	-determined baseline and also to ch	eck the validity of Auxiliary Data Files is correct
umber of products with errors: 0		sor the valuery of Australy Data Files is context.
4 L1B Auxiliary Correction Error Check		
ryoSat L1B data includes a correction error flag for each measurement recor	d. The bit value of this flag indicates	any problems when set.
lumber of products with errors: 0		
I.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag for each measurer	nent record. The bit value of this flag	indicates any problems when set.
Attitude Correction Missing: This flag is currently set in error for GOPR proc	lucts due to a configuration issue. Th	is is being investigated and will be updated in the next SW update.
lumber of products with errors: 1		
roduct	Test Failed	Description
S_OFFL_SIR_GOPM1B_20180311T130548_20180311T132658_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
61 1B Wayoform Group Data Chock		
.6 L1B Waveform Group Data Check		
ryoSat L1B data includes a waveform data flag for each measurement recom	-	any problems when set.
oss of Echo Flag: This flag is currently set for products over land, but this is	to be expected.	
umber of products with errors: 13		
roduct	Test Failed	Description
S_OFFL_SIR_GOPM1B_20180311T053700_20180311T054421_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOPM1B_20180311T202125_20180311T203904_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOPM1B_20180311T221811_20180311T222735_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOPN1B_20180311T034717_20180311T034841_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOPN1B_20180311T043838_20180311T043958_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOPN1B_20180311T074246_20180311T074337_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOPN1B_20180311T074417_20180311T074829_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOPN1B_20180311T092632_20180311T092734_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOPN1B_20180311T110426_20180311T110637_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOPN1B_20180311T201442_20180311T202021_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOPN1B_20180311T233756_20180311T233944_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180311T055608_20180311T055759_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180311T105628_20180311T105731_C001	Loss of Echo	The tracking echo is missing for one or more records
		the Observ
5. 6	OP Level 2 Data Qual	цу спеск
5.1 L2 Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to	ensure it consists of both an XML hea	ader file (.HDR) and a binary product file (.DBL).
lumber of products with errors: 0		
5.2 L2 Product Header Analysis		
•	d SPH in order to identify any inconsi	stencies and/or errors raised by the ground-segment processing chain.
or all products, a series of pre-defined checks are performed on the MPH an	d SPH in order to identify any inconsi	stencies and/or errors raised by the ground-segment processing chain.
or all products, a series of pre-defined checks are performed on the MPH an lumber of products with errors: 1	d SPH in order to identify any inconsi	stencies and/or errors raised by the ground-segment processing chain.
or all products, a series of pre-defined checks are performed on the MPH an umber of products with errors: 1 roduct	Test Failed	stencies and/or errors raised by the ground-segment processing chain.
or all products, a series of pre-defined checks are performed on the MPH an lumber of products with errors: 1 roduct SOFFL_SIR_GOPR_2_20180311T191817_20180311T192533_C001	Test Failed	
5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an Number of products with errors: 1 Product CS_OFFL_SIR_GOPR_2_20180311T191817_20180311T192533_C001 5.3 L2 Auxiliary Data File Usage Check	Test Failed	
ior all products, a series of pre-defined checks are performed on the MPH an lumber of products with errors: 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Test Failed Percentage of process	sing errors detected greater than minimum acceptable threshold.
ior all products, a series of pre-defined checks are performed on the MPH an lumber of products with errors: 1 Product CS_OFFL_SIR_GOPR_2_20180311T191817_20180311T192533_C001 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-	Test Failed Percentage of process	sing errors detected greater than minimum acceptable threshold.
For all products, a series of pre-defined checks are performed on the MPH an Aumber of products with errors: 1 Product US_OFFL_SIR_GOPR_2_20180311T191817_20180311T192533_C001 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a product of products with errors: 0	Test Failed Percentage of process	sing errors detected greater than minimum acceptable threshold.
Tor all products, a series of pre-defined checks are performed on the MPH and and a series of products with errors: 1 Troduct S_OFFL_SIR_GOPR_2_20180311T191817_20180311T192533_C001	Test Failed Percentage of process	sing errors detected greater than minimum acceptable threshold.
or all products, a series of pre-defined checks are performed on the MPH an lumber of products with errors: 1 roduct SS_OFFL_SIR_GOPR_2_20180311T191817_20180311T192533_C001 S.3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a pre lumber of products with errors: 0 S.4 L2 Auxiliary Correction Error Check	Test Failed Percentage of process e-determined baseline and also to ch	sing errors detected greater than minimum acceptable threshold. eck the validity of Auxiliary Data Files is correct.
or all products, a series of pre-defined checks are performed on the MPH an umber of products with errors: 1 roduct S_OFFL_SIR_GOPR_2_20180311T191817_20180311T192533_C001 .3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a pre- umber of products with errors: 0 .4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are ch	Test Failed Percentage of process e-determined baseline and also to ch	sing errors detected greater than minimum acceptable threshold. eck the validity of Auxiliary Data Files is correct.
or all products, a series of pre-defined checks are performed on the MPH an umber of products with errors: 1 roduct S_OFFL_SIR_GOPR_2_20180311T191817_20180311T192533_C001 .3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a pre- umber of products with errors: 0 .4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are ch- umber of products with errors: 0	Test Failed Percentage of process e-determined baseline and also to ch	sing errors detected greater than minimum acceptable threshold. eck the validity of Auxiliary Data Files is correct.
or all products, a series of pre-defined checks are performed on the MPH an umber of products with errors: 1 roduct S_OFFL_SIR_GOPR_2_20180311T191817_20180311T192533_C001 3.3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a pre umber of products with errors: 0 3.4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are ch umber of products with errors: 0 5.5 L2 Measurement Confidence Data Check	Test Failed Percentage of process e-determined baseline and also to choose ecked for the default error value (327)	sing errors detected greater than minimum acceptable threshold. eck the validity of Auxiliary Data Files is correct. 67).
or all products, a series of pre-defined checks are performed on the MPH an umber of products with errors: 1 roduct S_OFFL_SIR_GOPR_2_20180311T191817_20180311T192533_C001 3.3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a pre umber of products with errors: 0 3.4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are ch umber of products with errors: 0 5.5 L2 Measurement Confidence Data Check ryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement	Test Failed Percentage of process e-determined baseline and also to choose ecked for the default error value (327)	sing errors detected greater than minimum acceptable threshold. eck the validity of Auxiliary Data Files is correct. 67).
or all products, a series of pre-defined checks are performed on the MPH an lumber of products with errors: 1 roduct SS_OFFL_SIR_GOPR_2_20180311T191817_20180311T192533_C001 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre- lumber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are ch- lumber of products with errors: 0 5.5 L2 Measurement Confidence Data Check EryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement confide	Test Failed Percentage of process e-determined baseline and also to choose ecked for the default error value (327)	sing errors detected greater than minimum acceptable threshold. eck the validity of Auxiliary Data Files is correct. 67).
or all products, a series of pre-defined checks are performed on the MPH an lumber of products with errors: 1 roduct S_OFFL_SIR_GOPR_2_20180311T191817_20180311T192533_C001 5.3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a pre- lumber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check for all products, the auxiliary corrections within the Geophysical Group are ch- lumber of products with errors: 0 5.5 L2 Measurement Confidence Data Check ErroSat L2 data includes a measurement confidence flag for each 20-Hz measurement confidence flag for each 20-Hz measurement of products with errors: 1	Test Failed Percentage of process e-determined baseline and also to choose ecked for the default error value (327)	sing errors detected greater than minimum acceptable threshold. eck the validity of Auxiliary Data Files is correct. 67).
or all products, a series of pre-defined checks are performed on the MPH an lumber of products with errors: 1 roduct S_OFFL_SIR_GOPR_2_20180311T191817_20180311T192533_C001	Test Failed Percentage of process e-determined baseline and also to chose ecked for the default error value (327 surement record. The bit value of this	sing errors detected greater than minimum acceptable threshold. eck the validity of Auxiliary Data Files is correct. 67).
ior all products, a series of pre-defined checks are performed on the MPH an lumber of products with errors: 1 roduct SS_OFFL_SIR_GOPR_2_20180311T191817_20180311T192533_C001 S.3 L2 Auxiliary Data File Usage Check Cach product is checked for missing Data Set Descriptors with respect to a pre lumber of products with errors: 0 S.4 L2 Auxiliary Correction Error Check for all products, the auxiliary corrections within the Geophysical Group are chellumber of products with errors: 0 S.5 L2 Measurement Confidence Data Check CryoSat L2 data includes a measurement confidence flag for each 20-Hz meas lumber of products with errors: 1 roduct SS_OFFL_SIR_GOPM_2_20180311T130548_20180311T132658_C001	Test Failed Percentage of process e-determined baseline and also to che ecked for the default error value (327 surement record. The bit value of this Test Failed	sing errors detected greater than minimum acceptable threshold. eck the validity of Auxiliary Data Files is correct. 67). s flag indicates any problems when set. Description
For all products, a series of pre-defined checks are performed on the MPH an Aumber of products with errors: 1 Product SS_OFFL_SIR_GOPR_2_20180311T191817_20180311T192533_C001 S.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre- Aumber of products with errors: 0 S.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are check CryoSat L2 data includes a measurement confidence Data Check CryoSat L2 data includes a measurement confidence flag for each 20-Hz meas Aumber of products with errors: 1 Product DS_OFFL_SIR_GOPM_2_20180311T130548_20180311T132658_C001 S.6 L2 Range Measurement Check	Test Failed Percentage of process e-determined baseline and also to che ecked for the default error value (327 surement record. The bit value of this Test Failed Power scaling error	sing errors detected greater than minimum acceptable threshold. eck the validity of Auxiliary Data Files is correct. 67). 67). 8 flag indicates any problems when set. Description There is an error in the scaling of the L2 waveform for one or more re
For all products, a series of pre-defined checks are performed on the MPH an Aumber of products with errors: 1 Product US_OFFL_SIR_GOPR_2_20180311T191817_20180311T192533_C001	Test Failed Percentage of process e-determined baseline and also to che ecked for the default error value (327 surement record. The bit value of this Test Failed Power scaling error each measurement record. The bit value	sing errors detected greater than minimum acceptable threshold. eck the validity of Auxiliary Data Files is correct. 67). 67). 8 flag indicates any problems when set. Description There is an error in the scaling of the L2 waveform for one or more re-

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 87

Product	Test Failed	Description The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180310T235325_20180311T001744_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20180311T001956_20180311T002849_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T003049_20180311T005501_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T012202_20180311T015703_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T020213_20180311T020638_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T020937_20180311T024317_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T030346_20180311T031830_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T032405_20180311T033602_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T034127_20180311T034716_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T034841_20180311T041413_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T042627_20180311T042716_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T043958_20180311T051502_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T052033_20180311T052547_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T052724_20180311T053032_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T053233_20180311T053622_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T053700_20180311T054421_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
SS_OFFL_SIR_GOPM_2_20180311T060306_20180311T060549_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T061951_20180311T062840_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180311T063126_20180311T065355_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more coorde
CS_OFFL_SIR_GOPM_2_20180311T065905_20180311T070034_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180311T070041_20180311T070450_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180311T070635_20180311T071958_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180311T072124_20180311T072904_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20180311T072959 20180311T073406 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180311T074155_20180311T074246_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_201803111014135_201803111014248_0001		records. The Ocean Range Averaging Status Flag has been set for one or more
	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180311T083405_20180311T083932_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180311T083951_20180311T084222_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180311T085035_20180311T090306_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180311T090338_20180311T092050_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180311T092446_20180311T092632_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180311T094225_20180311T095359_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180311T095602_20180311T101149_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20180311T101332_20180311T101829_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T102734_20180311T103837_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T104432_20180311T105553_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T113526_20180311T115033_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T115254_20180311T115741_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T120354_20180311T123115_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T130548_20180311T132658_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T132708_20180311T133022_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T133323_20180311T133656_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T133719_20180311T134046_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T134309_20180311T140005_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T140047_20180311T141211_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T143954_20180311T150944_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T151113_20180311T151610_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20180311T151618 20180311T151946 C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180311T152245_20180311T153424_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
		records.

CS_OFFL_SIR_GOPM_2_20180311T161102_20180311T161120_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T164300_20180311T164421_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T164621_20180311T164930_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T165111_20180311T165641_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T170149_20180311T173607_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T180902_20180311T182843_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T183029_20180311T183538_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T184052_20180311T191523_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T194033_20180311T194502_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T194534_20180311T200312_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T200617_20180311T200656_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T201247_20180311T201441_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T202125_20180311T203904_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T204345_20180311T205114_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T211102_20180311T212813_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T213000_20180311T214412_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T215148_20180311T215352_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T215450_20180311T215854_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T220031_20180311T221610_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T221811_20180311T222735_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T224549_20180311T224645_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T225543_20180311T230659_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T231237_20180311T232044_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T232150_20180311T232705_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T232947_20180311T233756_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180311T002850_20180311T003049_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180311T115033_20180311T115254_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180311T115815_20180311T115821_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180311T151946_20180311T152011_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180311T201442_20180311T202021_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180311T205944_20180311T205948_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180311T224646_20180311T224750_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180311T062840_20180311T063126_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180311T070034_20180311T070040_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180311T090306_20180311T090338_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180311T153424_20180311T154000_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180311T160855_20180311T161101_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

5.7 L2 SWH and Backscatter Measurement Check

CryoSat L2 data includes a SWH Averaging Status flag and an Ocean and Ice Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are three common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 80

Number of products with errors:

Product	Test Failed	Description
		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T001956_20180311T002849_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
	00	The SWH and Ocean Averaging Status Flags have been set for one or more records.
	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T020213_20180311T020638_C001		The Ice Backscatter Averaging Status Flag has been set for one or more records.
	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_GOPM_2_20180311T030346_20180311T031830_C001 CS_OFFL_SIR_GOPM_2_20180311T032405_20180311T033602_C001 CS_OFFL_SIR_GOPM_2_20180311T034127_20180311T034716_C001 CS_OFFL_SIR_GOPM_2_20180311T034841_20180311T041413_C001 CS OFFL SIR GOPM 2 20180311T043958 20180311T051502 C001 CS_OFFL_SIR_GOPM_2_20180311T052033_20180311T052547_C001 CS OFFL SIR GOPM 2 20180311T052724 20180311T053032 C001 CS OFFL SIR GOPM 2 20180311T053233 20180311T053622 C001 CS_OFFL_SIR_GOPM_2_20180311T053700_20180311T054421_C001 CS_OFFL_SIR_GOPM_2_20180311T060306_20180311T060549_C001 CS OFFL SIR GOPM 2 20180311T061951 20180311T062840 C001 CS_OFFL_SIR_GOPM_2_20180311T063126_20180311T065355_C001 CS OFFL SIR GOPM 2 20180311T065905 20180311T070034 C001 CS_OFFL_SIR_GOPM_2_20180311T070041_20180311T070450_C001 CS_OFFL_SIR_GOPM_2_20180311T070635_20180311T071958_C001 CS OFFL SIR GOPM 2 20180311T072124 20180311T072904 C001 CS OFFL SIR GOPM 2 20180311T072959 20180311T073406 C001 CS_OFFL_SIR_GOPM_2_20180311T074155_20180311T074246_C001 CS_OFFL_SIR_GOPM_2_20180311T080026_20180311T083235_C001 CS_OFFL_SIR_GOPM_2_20180311T083405_20180311T083932_C001 CS_OFFL_SIR_GOPM_2_20180311T083951_20180311T084222_C001 CS OFFL SIR GOPM 2 20180311T085035 20180311T090306 C001 CS_OFFL_SIR_GOPM_2_20180311T090338_20180311T092050_C001 CS OFFL SIR GOPM 2 20180311T092446 20180311T092632 C001 CS OFFL SIR GOPM 2 20180311T094225 20180311T095359 C001 CS OFFL SIR GOPM 2 20180311T095602 20180311T101149 C001 CS_OFFL_SIR_GOPM_2_20180311T101332_20180311T101829_C001 CS_OFFL_SIR_GOPM_2_20180311T101908_20180311T102029_C001 CS_OFFL_SIR_GOPM_2_20180311T102734_20180311T103837_C001 CS OFFL SIR GOPM 2 20180311T104432 20180311T105553 C001 CS_OFFL_SIR_GOPM_2_20180311T113526_20180311T115033_C001 CS_OFFL_SIR_GOPM_2_20180311T115254_20180311T115741_C001 CS OFFL SIR GOPM 2 20180311T120354 20180311T123115 C001 CS_OFFL_SIR_GOPM_2_20180311T130548_20180311T132658_C001 CS_OFFL_SIR_GOPM_2_20180311T132708_20180311T133022_C001 CS OFFL SIR GOPM 2 20180311T133323 20180311T133656 C001 CS_OFFL_SIR_GOPM_2_20180311T133719_20180311T134046_C001 CS_OFFL_SIR_GOPM_2_20180311T134309_20180311T140005_C001 CS OFFL SIR GOPM 2 20180311T140047 20180311T141211 C001 CS_OFFL_SIR_GOPM_2_20180311T143954_20180311T150944_C001 CS_OFFL_SIR_GOPM_2_20180311T151113_20180311T151610_C001 CS OFFL SIR GOPM 2 20180311T151618 20180311T151946 C001 CS_OFFL_SIR_GOPM_2_20180311T152245_20180311T153424_C001 CS OFFL SIR GOPM 2 20180311T154000 20180311T155752 C001 CS_OFFL_SIR_GOPM_2_20180311T161102_20180311T161120_C001 CS_OFFL_SIR_GOPM_2_20180311T164300_20180311T164421_C001 CS OFFL SIR GOPM 2 20180311T164621 20180311T164930 C001 CS_OFFL_SIR_GOPM_2_20180311T165111_20180311T165641_C001 CS_OFFL_SIR_GOPM_2_20180311T170149_20180311T173607_C001 CS OFFL SIR GOPM 2 20180311T174943 20180311T175106 C001 CS OFFL SIR GOPM 2 20180311T180902 20180311T182843 C001 SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

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records. The SWH and Ocean Averaging Status Flags have been set for one or

more records. The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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CS_OFFL_SIR_GOPM_2_20180311T183029_20180311T183538_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T184052_20180311T191523_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T194033_20180311T194502_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T194534_20180311T200312_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T200617_20180311T200656_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T201247_20180311T201441_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T202125_20180311T203904_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T204345_20180311T205114_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T211102_20180311T212813_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T213000_20180311T214412_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T215450_20180311T215854_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T220031_20180311T221610_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T221811_20180311T222735_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T224549_20180311T224645_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T225543_20180311T230659_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T231237_20180311T232044_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T232150_20180311T232705_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180311T232947_20180311T233756_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180311T002850_20180311T003049_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180311T115033_20180311T115254_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180311T115815_20180311T115821_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180311T151946_20180311T152011_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180311T201442_20180311T202021_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

5.8 L2 Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. Number of products with errors: 61

6. GOP L2 Pole-to-Pole Data Quality Check

6.1 P2P Product Format Check

Each product, retrieved and unpacked from the science	e server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc).
Number of products with errors:	0

6.2 P2P Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

6.3 P2P Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors: 0

6.4 P2P Auxiliary Correction Error Check

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For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). Number of products with errors: 0

6.5 P2P Measurement Confidence Data Check

CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20180311T124744_20180311T133719_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Range Measurement Check

CryoSat P2P data includes an Ocean and Ice Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the P2P products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

Ocean Range Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected.

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220180310T233356_20180311T002330_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180311T002330_20180311T011309_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180311T011309_20180311T020244_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T020244_20180311T025223_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180311T025223_20180311T034157_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T034157_20180311T043137_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T043137_20180311T052111_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T052111_20180311T061050_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180311T061050_20180311T070024_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T070024_20180311T075004_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T075004_20180311T083938_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T083938_20180311T092917_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T092917_20180311T101851_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T101851_20180311T110831_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T110831_20180311T115805_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T115805_20180311T124744_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T124744_20180311T133719_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T133719_20180311T142658_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T142658_20180311T151632_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T151632_20180311T160611_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T160611_20180311T165546_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T165546_20180311T174525_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T174525_20180311T183459_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T183459_20180311T192438_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T192438_20180311T201413_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T201413_20180311T210352_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T210352_20180311T215326_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T215326_20180311T224305_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T224305_20180311T233240_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

6.7 P2P SWH and Backscatter Measurement Check

CryoSat P2P data includes a SWH Averaging Status flag and an Ocean and Ice Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are three common status flags raised in the P2P products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 29

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220180310T233356_20180311T002330_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180311T002330_20180311T011309_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T011309_20180311T020244_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T020244_20180311T025223_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T025223_20180311T034157_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T034157_20180311T043137_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T043137_20180311T052111_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180311T052111_20180311T061050_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180311T061050_20180311T070024_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_GOP_220180311T070024_20180311T075004_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180311T075004_20180311T083938_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T083938_20180311T092917_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180311T092917_20180311T101851_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180311T101851_20180311T110831_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180311T110831_20180311T115805_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180311T115805_20180311T124744_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180311T124744_20180311T133719_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180311T133719_20180311T142658_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T142658_20180311T151632_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180311T151632_20180311T160611_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180311T160611_20180311T165546_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180311T165546_20180311T174525_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T174525_20180311T183459_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T183459_20180311T192438_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180311T192438_20180311T201413_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T201413_20180311T210352_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T210352_20180311T215326_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220180311T215326_20180311T224305_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20180311T224305_20180311T233240_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

6.8 P2P Ocean Retracking Quality Check

Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. Number of products with errors: 28

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220180311T002330_20180311T011309_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T011309_20180311T020244_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T020244_20180311T025223_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T025223_20180311T034157_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T034157_20180311T043137_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T043137_20180311T052111_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T052111_20180311T061050_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T061050_20180311T070024_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T070024_20180311T075004_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T075004_20180311T083938_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T083938_20180311T092917_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T092917_20180311T101851_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T101851_20180311T110831_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T110831_20180311T115805_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T115805_20180311T124744_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T124744_20180311T133719_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T133719_20180311T142658_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T142658_20180311T151632_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_GOP_220180311T151632_20180311T160611_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T160611_20180311T165546_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T165546_20180311T174525_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T174525_20180311T183459_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T183459_20180311T192438_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T192438_20180311T201413_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T201413_20180311T210352_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T210352_20180311T215326_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180311T215326_20180311T224305_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180311T224305_20180311T233240_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.